

# Breadcrumb

Breadcrumbs The `<aava-breadcrumbs>` provides a comprehensive navigation solution for displaying hierarchical navigation paths. It supports icons, collapsible behavior, multiple sizes, custom separators, and responsive design to enhance user navigation experience.

How to use ■ Import the component and provide an array of breadcrumb items with their navigation properties.

```
import { AavaBreadcrumbsComponent } from "@aava/play-core";
```

Basic Usage ■ Simple breadcrumb navigation with text labels. With Icons ■ Breadcrumbs with icons for enhanced visual representation.

Size Variants ■ Four different size options (xs, sm, md, lg) for various design contexts.

Collapsible Behavior ■ Smart collapsing for long navigation paths with ellipsis expansion.

Custom Separator ■ Customizable separator icons and sizes.

Dropdown Breadcrumbs ■ Interactive breadcrumbs with dropdown menus for enhanced navigation options.

Features ■ Hierarchical Navigation ■ Display navigation paths with clear hierarchy

Support for unlimited breadcrumb levels

Automatic active state management

Icon Support ■ Optional icons for each breadcrumb item

Consistent icon sizing and coloring

Icon-text alignment and spacing

Collapsible Behavior ■ Smart collapsing for long navigation paths

Ellipsis expansion on click

Configurable maximum visible items

Maintains navigation context

Size Variants ■ Four size options: extra small (xs), small (sm), medium (md), and large (lg)

Consistent typography and spacing across all sizes

Responsive sizing behavior with appropriate icon scaling

Custom Separators ■ Configurable separator icons

Adjustable separator sizes

Consistent styling with breadcrumb items

Dropdown Navigation ■ Interactive dropdown menus for breadcrumb items

Support for nested navigation options

Configurable dropdown styling and positioning

Icon support within dropdown items

Click-outside to close functionality

Accessibility ■ ARIA attributes for screen readers

Keyboard navigation support

Focus management

Semantic HTML structure

Responsive Design ■ Mobile-friendly navigation

Adaptive collapsing behavior

Touch-optimized interactions

API Reference ■ Inputs ■ Property Type Default Description

`breadcrumbs`

`BreadcrumbItem[]` [] Array of breadcrumb items to display

`size` 'sm' | 'md' | 'lg' | 'xs' | 'md'

`Size variant for the breadcrumbs`

`separatorIcon` string 'chevron-right'

`Icon name for breadcrumb separators`

`separatorSize` number 14 Size of separator icons in pixels

`dropdownIconSize` number 14 Size of dropdown icons in pixels

`flyoutStyle` Record<string, string> undefined Custom styles for dropdown flyout

`customStyles` Record<string, string> {} Custom styles for breadcrumb container

`collapsible` boolean true Enable collapsible behavior for long paths

`maxVisibleItems` number 5 Maximum items to show before collapsing

Interfaces ■ interface `DropdownItem` { `label` : string ; // Dropdown item `label` `url` : string ; // Dropdown item URL `icon` ? : string ; // Optional icon for dropdown item }

interface `BreadcrumbItem` { `label` ? : string ; // Optional text label `icon` ? : string ; // Optional icon name `url` : string ; // Required URL for navigation `active` : boolean ; // Required active state `dropdownItems` ? : `DropdownItem` [ ] ; // Optional dropdown items `dropdownWidth` ? : number ; // Optional dropdown width }

Methods ■ Method Parameters Description

`onBreadcrumbClick()` event: Event, index: number Handle breadcrumb item click and navigation

onEllipsisClick() None Expand collapsed breadcrumbs on ellipsis click onBreadcrumbKeydown() event: KeyboardEvent, index: number Handle keyboard navigation getIconColor() isLast: boolean Get appropriate icon color based on state getOriginalIndex() displayedIndex: number Map displayed index to original breadcrumb index Computed Properties ■ Property Type Description displayedBreadcrumbs BreadcrumbItem[] Current breadcrumbs to display (considering collapse) shouldCollapse boolean Whether breadcrumbs should be collapsed shouldShowEllipsis boolean Whether to show ellipsis for collapsed items CSS Custom Properties ■ Container Properties ■ Property Description --breadcrumbs-background Background color of breadcrumb container --breadcrumbs-font Font family and properties for breadcrumb container Item Properties ■ Property Description --breadcrumbs-item-text Text color for breadcrumb items --breadcrumbs-item-border-radius Border radius for breadcrumb items --breadcrumbs-item-transition Transition properties for breadcrumb items --breadcrumbs-item-hover-text Text color on hover --breadcrumbs-item-active-background Background color for active items --breadcrumbs-item-disabled-text Text color for disabled items --breadcrumbs-item-disabled-cursor Cursor for disabled items Current Item Properties ■ Property Description --breadcrumbs-item-current-text Text color for current/active item --breadcrumbs-item-current-font-weight Font weight for current item Size Variants ■ Property Description --breadcrumbs-size-xs-font Font properties for extra small size --breadcrumbs-size-sm-font Font properties for small size --breadcrumbs-size-md-font Font properties for medium size --breadcrumbs-size-lg-font Font properties for large size CSS Classes ■ Container Classes ■ .breadcrumb - Main breadcrumb container .breadcrumb.xs - Extra small size variant .breadcrumb.sm - Small size variant .breadcrumb.md - Medium size variant (default) .breadcrumb/lg - Large size variant Item Classes ■ .breadcrumb-item - Individual breadcrumb item container .breadcrumb-separator - Separator icon styling .breadcrumb-ellipsis - Ellipsis container for collapsed items .ellipsis - Ellipsis text styling .dropdown-container - Container for dropdown breadcrumb items .dropdown-button - Button element for dropdown triggers .dropdown-menu - Dropdown menu container .dropdown-item - Individual dropdown menu items State Classes ■ .active - Active breadcrumb item .inactive - Inactive breadcrumb item .disabled - Disabled breadcrumb item Best Practices ■ Navigation Structure ■ Keep breadcrumb paths logical and intuitive Use descriptive labels that match page titles Ensure URLs are valid and accessible Icon Usage ■ Use consistent icon naming conventions Choose icons that clearly represent navigation levels Maintain icon-text alignment and spacing Dropdown Navigation ■ Use dropdowns for breadcrumb items that have multiple sub-navigation options Provide meaningful labels and icons for dropdown items Configure appropriate dropdown width using dropdownWidth property Use flyoutStyle to customize dropdown appearance and positioning Collapsible Behavior ■ Set appropriate maxVisibleItems based on design context Test collapsing behavior with various path lengths Ensure ellipsis expansion provides meaningful navigation Accessibility ■ Provide meaningful labels for screen readers Test keyboard navigation thoroughly Ensure sufficient color contrast for all states Responsive Design ■ Test breadcrumbs on various screen sizes Consider mobile navigation patterns Optimize touch targets for mobile devices Performance ■ Avoid

excessive breadcrumb levels Use efficient navigation logic Optimize icon rendering and caching  
Use Cases ■ E-commerce Sites ■ Product category navigation Search result breadcrumbs  
Shopping cart navigation Content Management Systems ■ Document hierarchy navigation Folder structure display Content editing paths Web Applications ■ User dashboard navigation Settings and configuration paths Multi-step form navigation Documentation Sites ■ Documentation hierarchy Search result navigation Related content linking Admin Panels ■ User management navigation System configuration paths Report and analytics navigation Console Applications ■ Build tool navigation with dropdown options Agent and workflow creation paths Quick access to related creation tools Accessibility ■ ARIA Support ■ Proper aria-current attributes for current page Semantic navigation structure Screen reader friendly labels Keyboard Navigation ■ Tab navigation through breadcrumb items Arrow key navigation between items Enter/Space activation for navigation Focus Management ■ Clear focus indicators Logical tab order Focus restoration after navigation Screen Reader Support ■ Descriptive labels for navigation items Context information for collapsed items Clear indication of current location Responsive Behavior ■ Mobile Optimization ■ Touch-friendly tap targets Optimized spacing for mobile screens Collapsible behavior for limited space Tablet Adaptation ■ Balanced layout for medium screens Appropriate icon and text sizing Maintained navigation context Desktop Enhancement ■ Full navigation path display Hover effects and interactions Enhanced visual hierarchy Browser Support ■ Modern Browsers : Full support for all features CSS Grid/Flexbox : Required for layout ES6+ Features : Required for component functionality Angular Router : Required for navigation functionality

```
<aava-breadcrumbs [breadcrumbs]="simpleBreadcrumbs"></aava-breadcrumbs>
```

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```
simpleBreadcrumbs: BreadcrumbItem[] = [
  { label: 'Home', url: '/home', active: false },
  { label: 'Category', url: '/category', active: false },
  { label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="mixedBreadcrumbs"></aava-breadcrumbs>
```

---

```
mixedBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Category', url: '/category', active: false },
  { icon: 'file', label: 'Product', url: '/product', active: true },
];
```

```
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="xs">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="sm">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="md">
</aava-breadcrumbs>
<aava-breadcrumbs [breadcrumbs]="sampleBreadcrumbs" size="lg">
</aava-breadcrumbs>

---

sampleBreadcrumbs: BreadcrumbItem[] = [
  { icon: 'home', label: 'Home', url: '/home', active: false },
  { icon: 'folder', label: 'Products', url: '/products', active: false },
  {
    icon: 'tag',
    label: 'Category',
    url: '/products/category',
    active: false,
  },
  {
    icon: 'package',
    label: 'Item Details',
    url: '/products/category/item',
    active: true,
  },
];

```

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